A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02F1/1343 G02F G02F1/133 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G02F H01C IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° X US 4 106 858 A (DARGENT BRUNO ET AL) 1-4,6,7, 15 August 1978 (1978-08-15) 9-15,17 column 3, line 38 - column 7, line 19; figures 3,4,7 Y 5,8 US 3 675 988 A (SOREF RICHARD A) 5 11 July 1972 (1972-07-11) column 10, line 13 - column 11, line 25; figures 18,19 Y PATENT ABSTRACTS OF JAPAN 8 vol. 0120, no. 68 (P-672), 3 March 1988 (1988-03-03) & JP 62 209412 A (JIESU:KK) 14 September 1987 (1987-09-14) abstract Further documents are listed in the continuation of box C. Patent family members are listed in annex. X Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-'O' document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 19 October 2004 24/11/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Cossu, A Fax: (+31-70) 340-3016

IN LEMNATIONAL SEARCH REPURT

Inter nal Application No PC I / 1 B 2004 / 051345

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to claim No.		
Ρ,Χ	YE M ET AL: "DRIVING OF LIQUID CRYSTAL LENS WITHOUT DISCLINATION OCCURRING BY APPLYING IN-PLANE ELECTRIC FIELD" JAPANESE JOURNAL OF APPLIED PHYSICS, PUBLICATION OFFICE JAPANESE JOURNAL OF APPLIED PHYSICS. TOKYO, JP, vol. 42, no. 8, PART 1, August 2003 (2003-08), pages 5086-5089, XP001191433 ISSN: 0021-4922 page 5087 - page 5089; figure 3	1-4,6,7, 9-17		
P,Y		5,8		
Y	NOSE T ET AL: "Optical properties of a liquid crystal microlens with a symmetric electrode structure" JAPANESE JOURNAL OF APPLIED PHYSICS, PART 2 (LETTERS) JAPAN, vol. 30, no. 12B, 15 December 1991 (1991-12-15), pages L2110-L2112, XP002301135 ISSN: 0021-4922 Par. 1, Introduction; par. 4, Conclusions.	5		
x	US 4 802 744 A (ENARI MASAHIKO ET AL) 7 February 1989 (1989-02-07) column 3, line 25 - line 30 column 5, line 23 - line 61; claim 1; figures 3,4	15		
A	rigules 5,4	1-4,6,7, 10,14		
P,A	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) -& JP 2004 004616 A (JAPAN SCIENCE & TECHNOLOGY CORP), 8 January 2004 (2004-01-08) abstract paragraph '0046! - paragraph '0054!; claims 5-7	1-7, 10-15,17		
A	US 5 596 430 A (HASEGAWA MASAKI ET AL) 21 January 1997 (1997-01-21) column 3, line 55 - column 7, line 67; figures 1,2	1-17		

INTERNATIONAL SEARCH REPORT

Intern nal Application No
PCT7IB2004/051345

<u>_</u>		PC1/1B2004/051345						
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT								
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.						
A	VAN DEN BROEK J J ET AL: "Metal film precision resistors: resistive metal films and a new resistor concept" PHILIPS JOURNAL OF RESEARCH, ELSEVIER, AMSTERDAM, NL, vol. 51, no. 3, 1998, pages 429-447, XP004129318 ISSN: 0165-5817 the whole document	12						
Α	EP 0 440 144 A (SANYO ELECTRIC CO; TOKYO SANYO ELECTRIC CO (JP)) 7 August 1991 (1991-08-07) column 4, line 10 - column 7, line 12	13						
A	MAROTTA V ET AL: "Indium and tin oxide multilayered thin films as gas sensors based on reactive pulsed laser deposition" PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING SPIE-INT. SOC. OPT. ENG USA, vol. 4070, 2000, pages 338-344, XP002301136 ISSN: 0277-786X Par. 3.3; fig. 4	10,11,14						

IN LEHNATIONAL SEARCH REPORT

formation on patent family members

Inter pnal Application No
PCT/IB2004/051345

Patent document cited in search report			Publication date	Patent family member(s)			Publication date	
US	4106858	Α	15-08-1978	FR	2349849	A1	25-11-1977	
				DE	2719059		10-11-1977	
				JP	52133229	Α	08-11-1977	
US	3675988	Α	11-07-1972	CA	934865	A1	02-10-1973	
				DE	2058007		27-05-1971	
				FR	2068632		27-08-1971	
				GB	1331940	Α	26-09-1973	
JP	62209412	Α	14-09-1987	JP	1633718	C	20-01-1992	
				JP	2061014	В	18-12-1990	
US	4802744	Α	07-02-1989	JP	2505744	B2	12-06-1996	
				JP	62239127	Α	20-10-1987	
				JP	2520599		31-07-1996	
				JP	62276525		01-12-1987	
				JP	2505751		12-06-1996	
				JP	62299945	Α	26-12-1987	
JP	2004004616	Α	08-01-2004	NONE				
US	5596430	Α	21-01-1997	JP	7064123	Α	10-03-1995	
EP	0440144	A	07-08-1991	DE	69113644	D1	16-11-1995	
				DE	69113644		30-05-1996	
				EP	0440144		07-08-1991	
				JP	6095161	Α	08-04-1994	
				US		Α	17-11-1992	
				JP	3011488		21-02-2000	
				JP	4253034	Α	08-09-1992	